CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 07.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2021	07.06.2021	8.025	360.3	16.01
2	10.05.2021	07.06.2021	8.013	359.9	16.00
3	10.05.2021	07.06.2021	8.078	362.2	16.10

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 22.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	: **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	22.05.2021	8.127	370.0	16.44
2	26.04.2021	22.05.2021	8.154	382.6	17.00
3	26.04.2021	22.05.2021	8.162	392.1	17.43

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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 27.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	**: Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2021	27.05.2021	8.005	360.0	16.00
2	29.04.2021	27.05.2021	8.124	370.0	16.44
3	29.04.2021	27.05.2021	8.137	380.0	16.89

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 27.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2021	27.05.2021	8.127	365.2	16.23
2	29.04.2021	27.05.2021	8.154	378.9	16.84
3	29.04.2021	27.05.2021	8.139	382.3	16.99

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 27.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	**: Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2021	27.05.2021	8.052	370.0	16.44
2	29.04.2021	27.05.2021	8.169	385.6	17.14
3	29.04.2021	27.05.2021	8.003	392.1	17.43

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 27.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2021	27.05.2021	8.112	369.5	16.42
2	29.04.2021	27.05.2021	8.162	374.8	16.66
3	29.04.2021	27.05.2021	8.127	382.3	16.99

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 07.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2021	07.06.2021	8.001	376.9	16.75
2	10.05.2021	07.06.2021	8.167	384.1	17.07
3	10.05.2021	07.06.2021	8.197	392.3	17.44

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 22.04.2021

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client : : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Contractor : : Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of Work : Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
No.of Sample Tested : 03
Date of Testing : 22.04.2021
Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.369	2349.13	1.60	0.957	35.20	17.93	19.36	18.52	23.16
2	50.00	80.00	0.361	2298.20	1.60	0.957	33.70	17.16	18.54	17.74	22.17
3	50.00	80.00	0.358	2279.10	1.60	0.957	34.10	17.37	18.76	17.95	22.43

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 03.05.2021

GRADATION FOR WMM

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
IS Code: :IS 2386 (Part 1):1963(RA 2011)
Date of Testing 03.05.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	201	201	2.0	98.0	95-100
22.4	2566	2767	27.7	72.3	60-80
11.2	2085	4852	48.5	51.5	40-60
4.75	1863	6715	67.2	32.9	25-40
2.36	1158	7873	78.7	21.3	15-30
0.600	575	8448	84.5	15.5	8-22
0.075	1285	9733	97.3	2.7	0-5

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 03.05.2021

GRADATION FOR WMM

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
IS Code: :IS 2386 (Part 1):1963(RA 2011)
Date of Testing 03.05.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	223	223	2.2	97.8	95-100
22.4	2458	2681	26.8	73.2	60-80
11.2	2123	4804	48.0	52.0	40-60
4.75	1784	6588	65.9	34.1	25-40
2.36	1263	7851	78.5	21.5	15-30
0.600	654	8505	85.1	15.0	8-22
0.075	1263	9768	97.7	2.3	0-5

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Job No.: CQCE/BBMP/CR/17/2021-2022 03.05.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	: **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work	Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	03.05.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.6	12.8	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.1	10.7	
	Combined Flakiness & Elongation index	22.70	23.5	

Note:

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 05.05.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
IS Code: IS 2720(Part 5):1985
Date of Testing 03.05.2021 to 05.05.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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ಯಶವಂತಪುರ ಭಾಗ ವಿಭಾಗ.
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/CR/17/2021-2022 Date 05.05.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
IS Code: IS 2720(Part 5):1985
Date of Testing 03.05.2021 to 05.05.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
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